

Bratcher, Mike, EMNRD

From: Bradley Blevins [bradley.blevins@chk.com]
Sent: Wednesday, February 16, 2011 7:41 AM
To: Bratcher, Mike, EMNRD
Subject: FW: HENSHAW DEEP 5- Lab Results
Attachments: 20110211094114565.pdf

To follow up.

Thanks, Bradley

-----Original Message-----

From: Bradley Blevins
Sent: Friday, February 11, 2011 10:53 AM
To: 'Bratcher, Mike, EMNRD'
Subject: HENSHAW DEEP 5- Lab Results

Mike,

Attached are the Lab results from the Henshaw Deep 5 release that Chesapeake had. The site sample map is also attached in the document. Upon review Chesapeake would like to backfill the site and complete closure. If you could review the data and respond your comments we will proceed with closure. If you have any question or concerns please let me know.

Thank you,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575)391-6679

-----Original Message-----

From: Bradley Blevins
Sent: Friday, February 11, 2011 8:41 AM
To: Bradley Blevins
Subject:

This E-mail was sent from "1hobnm-1-ri02" (Aficio MP C3500).

Scan Date: 02.11.2011 09:41:14 (-0500)

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PHONE (575) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

February 07, 2011

JERRY SMITH

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: HENSHAW DEEP #5

Enclosed are the results of analyses for samples received by the laboratory on 02/02/11 10:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBES, NM 88240

Analytical Results For:

Environmental Plus, Inc.
JERRY SMITH
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 02/02/2011
Reported: 02/07/2011
Project Name: HENSHAW DEEP #5
Project Number: 160724
Project Location: NE/4 NE/4 SEC 23-16S-30E

Sampling Date: 01/31/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 (H100230-01)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2011	ND	1.94	96.8	2.00	7.54	
Toluene*	<0.050	0.050	02/04/2011	ND	1.96	97.9	2.00	6.26	
Ethylbenzene*	<0.050	0.050	02/04/2011	ND	1.99	99.6	2.00	6.18	
Total Xylenes*	<0.150	0.150	02/04/2011	ND	5.89	98.2	6.00	6.82	

Surrogate: 4-Bromofluorobenzene (PIL) 93.1 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/04/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/03/2011	ND	250	99.9	250	3.42	
DRO >C10-C28	18.9	10.0	02/03/2011	ND	231	92.2	250	2.28	

Surrogate: 1-Chlorooctane 104 % 70-130

Surrogate: 1-Chlorooctadecane 109 % 70-130

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 9



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Analytical Results For:

Environmental Plus, Inc.
JERRY SMITH
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 02/02/2011
Reported: 02/07/2011
Project Name: HENSHAW DEEP #5
Project Number: 160724
Project Location: NE/4 NE/4 SEC 23-16S-30E

Sampling Date: 01/31/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 (H100230-02)

BTEX 80218			mg/kg		Analyzed By: CMS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2011	ND	1.94	96.8	2.00	7.54	
Toluene*	<0.050	0.050	02/04/2011	ND	1.96	97.9	2.00	6.26	
Ethylbenzene*	<0.050	0.050	02/04/2011	ND	1.99	99.6	2.00	6.18	
Total Xylenes*	<0.150	0.150	02/04/2011	ND	5.89	98.2	6.00	6.82	

Surrogate: 4-Bromofluorobenzene (PHE) 96.8 % 70-130

Chloride, SM4500Cl-B			mg/kg		Analyzed By: LR				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/04/2011	ND	448	112	400	3.64	

TPH 8015M			mg/kg		Analyzed By: AB				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/03/2011	ND	250	99.9	250	3.42	
DRO >C10-C28	<10.0	10.0	02/03/2011	ND	231	92.2	250	2.28	

Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 107 % 70-130

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Analytical Results For:

Environmental Plus, Inc.
JERRY SMITH
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 02/02/2011
Reported: 02/07/2011
Project Name: HENSHAW DEEP #5
Project Number: 160724
Project Location: NE/4 NE/4 SEC 23-16S-30E

Sampling Date: 01/31/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 (H100230-03)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2011	ND	1.94	96.8	2.00	7.54		
Toluene*	<0.050	0.050	02/04/2011	ND	1.96	97.9	2.00	6.26		
Ethylbenzene*	<0.050	0.050	02/04/2011	ND	1.99	99.6	2.00	6.18		
Total Xylenes*	<0.150	0.150	02/04/2011	ND	5.89	98.2	6.00	6.82		

Surrogate: 4-Bromofluorobenzene (PIL) 98.9 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/04/2011	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/03/2011	ND	250	99.9	250	3.42		
DRO >C10-C28	<10.0	10.0	02/03/2011	ND	231	92.2	250	2.28		

Surrogate: 1-Chlorooctane 99.2 % 70-130

Surrogate: 1-Chlorooctadecane 106 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 JERRY SMITH
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	02/02/2011	Sampling Date:	01/31/2011
Reported:	02/07/2011	Sampling Type:	Soil
Project Name:	HENSHAW DEEP #5	Sampling Condition:	Cool & Intact
Project Number:	160724	Sample Received By:	Jodi Henson
Project Location:	NE/4 NE/4 SEC 23-16S-30E		

Sample ID: SP 4 (H100230-04)

BTEX 8021B		mg/kg	Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2011	ND	1.94	96.8	2.00	7.54	
Toluene*	<0.050	0.050	02/04/2011	ND	1.96	97.9	2.00	6.26	
Ethylbenzene*	<0.050	0.050	02/04/2011	ND	1.99	99.6	2.00	6.18	
Total Xylenes*	<0.150	0.150	02/04/2011	ND	5.89	98.2	6.00	6.82	

Surrogate: 4-Bromofluorobenzene (PIE) 99.4 % 70-130

Chloride, SM4500Cl-B		mg/kg	Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/04/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/03/2011	ND	250	99.9	250	3.42	
DRO >C10-C28	<10.0	10.0	02/03/2011	ND	231	92.2	250	2.28	

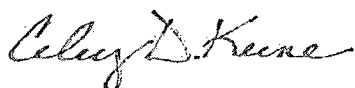
Surrogate: 1-Chlorooctane 106 % 70-130

Surrogate: 1-Chlorooctadecane 111 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Environmental Plus, Inc.
JERRY SMITH
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 02/02/2011
Reported: 02/07/2011
Project Name: HENSHAW DEEP #5
Project Number: 160724
Project Location: NE/4 NE/4 SEC 23-16S-30E

Sampling Date: 01/31/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 (H100230-05)

BTX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2011	ND	1.94	96.8	2.00	7.54		
Toluene*	<0.050	0.050	02/04/2011	ND	1.96	97.9	2.00	6.26		
Ethylbenzene*	<0.050	0.050	02/04/2011	ND	1.99	99.6	2.00	6.18		
Total Xylenes*	<0.150	0.150	02/04/2011	ND	5.89	98.2	6.00	6.82		

Surrogate: 4-Bromofluorobenzene (PIL) 126 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/04/2011	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/03/2011	ND	250	99.9	250	3.42		
DRO >C10-C28	19.4	10.0	02/03/2011	ND	231	92.2	250	2.28		

Surrogate: 1-Chlorooctane 104 % 70-130

Surrogate: 1-Chlorooctadecane 109 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Environmental Plus, Inc.
JERRY SMITH
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 02/02/2011
Reported: 02/07/2011
Project Name: HENSHAW DEEP #5
Project Number: 160724
Project Location: NE/4 NE/4 SEC 23-16S-30E

Sampling Date: 01/31/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 (H100230-06)

BTX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2011	ND	1.94	96.8	2.00	7.54		
Toluene*	<0.050	0.050	02/04/2011	ND	1.96	97.9	2.00	6.26		
Ethylbenzene*	<0.050	0.050	02/04/2011	ND	1.99	99.6	2.00	6.18		
Total Xylenes*	<0.150	0.150	02/04/2011	ND	5.89	98.2	6.00	6.82		

Surrogate: 4-Bromofluorobenzene (PII) 99.8 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/04/2011	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/03/2011	ND	250	99.9	250	3.42		
DRO >C10-C28	13.3	10.0	02/03/2011	ND	231	92.2	250	2.28		

Surrogate: 1-Chlorooctane 99.0 % 70-130

Surrogate: 1-Chlorooctadecane 105 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

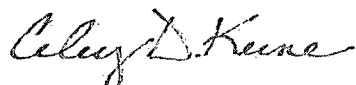
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(505) 394-3481 FAX: (505) 394-2601

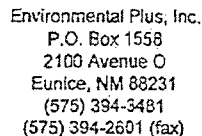
P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB *Continental*

Company Name		Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																												
EPI Project Manager		Jerry Smith		 Attn: Jerry Smith P.O. Box 1558 Eunice, NM 88231																														
Mailing Address		P.O. BOX 1558																																
City, State, Zip		Eunice New Mexico 88231																																
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																																
Client Company		Chesapeake Energy																																
Facility Name		Henshaw Deep #5																																
Location		NE/4 NE/4 Sec 23-16S-30E																																
Project Reference		160724																																
EPI Sampler Name		David Robinson																																
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.		SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH												
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME																				
H100230-1	1 SP 1	G	1			X					X		31-Jan-11	3:45	X	X	X																	
	2 SP 2	G	1			X					X		31-Jan-11	3:46	X	X	X																	
	3 SP 3	G	1			X					X		31-Jan-11	3:47	X	X	X																	
	4 SP 4	G	1			X					X		31-Jan-11	3:49	X	X	X																	
	5 SP 5	G	1			X					X		31-Jan-11	3:50	X	X	X																	
	6 SP 6	G	1			X					X		31-Jan-11	3:52	X	X	X																	
	7																																	
	8																																	
	9																																	
	10																																	

Sampler Relinquished:		Date: 2-1-11	Received By: <i>David Jensen</i>	E-mail results to: jsmith.epi@gmail.com
Relinquished by:		Time: 10:30	Received By: (lab staff)	
Delivered by: <i>David Smith</i>		Date: 2-1-11	Time:	
Sample Cool & Intact		Yes ☒ No ☐		Checked By: <i>DA</i>



COMPANY:

PROJECT NAME:

PROJECT NUMBER:

PROJECT MANAGER: *Terry S. Smith*

FIELD TECHNICIAN: *D. Robinson*

DATE: 1-3-71

[illegible]

Henshaw Deep 5

